

PATENT SPECIFICATION

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COMPLETE SPECIFICATION

Improved Combined Grass Cutting and Edge Trimming Machine.

We, JAMES STUART BRASINGTON, a British Subject, of 60, Melville Parade, Como, State of Western Australia, Commonwealth of Australia, and FREDERICK ARTHUR GILHAM, a British Subject, of 87, Webster Street, Nedlands, State of Western Australia, Commonwealth of Australia, do hereby declare the invention for which we pray that a patent may be granted to us, and the method by which it is to be performed, to be particularly described in and by the following statement;—

This invention relates to a combined grass cutting and edge trimming machine.

There are numerous power-driven grass cutters, or lawn mowers as they are usually called. In addition, there are a limited number of power-driven edge trimmers. However, there has been no entirely satisfactory dual purpose machine.

The machine the subject of the present invention is satisfactory for both purposes, and in addition, when functioning as an edge cutter is, it is considered, more efficient than the existing single purpose machines.

The invention consists broadly of a combined grass cutting and edge trimming machine having rollers on wheels at the front and at the rear, a supporting member connecting the front and the rear of the machine; a bracket adapted to turn on the supporting member and to be locked thereto; a bearing supported by the bracket; an engine unit supported by the bearing; an engine shaft; and a cutter unit connected thereto.

The invention will however more readily be understood by reference to the accompanying drawings, in which:—

Figure 1 is a side elevation of the grass cutting and edge trimming machine, and:—

Fig. 2 is a sectional elevation from the front.

As shown in these drawings there is a front roller 10 and a rear roller 11. These can be replaced for example by a wheel at the front and one or more wheels at the back which may be pneumatically tyred. However, the arrangement illustrated gives satisfactory

results. At the front there is a housing 12 which is supported on each side by an axle 13 of the front roller, whilst at the rear there is a housing 14 which is supported on each side by the axle 15.

A supporting member 16, preferably of tubular form, connects the front housing with the rear housing. Associated with this supporting member 16 is a guiding or moving handle 17 which can be of the usual known form and is only partly illustrated. Also associated with the supporting member 16 is a double-ended swivelling bracket 18 which is adapted to be clamped on to the supporting member 16 and to be locked thereto by tightening of a bolt 19. The other end of the clamp is adapted to engage a bearing 20 in the form of a sleeve and this can be locked to the clamp by means of a bolt 21.

Extending through the bearing or sleeve 20 is the cutter shaft 22 and mounted on the bearing is an engine 23. This may be connected to a flexible tube 24 in turn connected to a fuel tank 25 supported on the front or rear housing, for example 12. The end of the cutter shaft 22 is connected to a boss 26 from which extends the cutting unit 27 which may be of any desired form but which will preferably include a plurality of arms supporting corresponding knives or blades.

When the machine is in the position shown in Fig. 1, it can function as a grass cutter, the cutting unit being raised or lowered at will by easing the bolt 21 and re-tightening it when the desired adjusted position has been reached.

When it is desired to convert the apparatus to an edge trimmer, the bolt 19 is eased and the bracket 18 and with it the bearing 20 and of course the engine 23 and cutter unit 27 are turned through the desired angle, which may be up to somewhat in the excess of 90 degrees, or, as shown in Figure 2, through an angle somewhat less than 90 degrees. The bolt 19 is then tightened and the blade will be in a position approximately as shown in Fig. 2. The movement of the engine and the various parts

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does not interfere with the supply of fuel thereto due to the flexible tube 24 supplying the same. In such position the machine can be wheeled along and an edge trimmed off with ease and precision. Actually the angle of the cut used can be varied for special purposes.

What we claim is:—

(1) A combined grass cutting and edge trimming machine which consists of rollers or wheels at the front and at the rear; a supporting member connected to the front and rear of the machine; a bracket adapted to be locked to the supporting member in various positions; a bearing supported by the bracket; an engine unit supported by the bearing; an engine shaft; and a cutting unit connected thereto.

(2) A combined grass cutting and edge

trimming machine as set out in Claim 1, in which the machine is furnished with a guiding handle and in which the bracket also has provision for adjustable attachment to the bearing supporting the engine.

(3) A combined grass cutting and edge trimming machine as set out in Claim 1 or Claim 2, in which a flexible tube supplies fuel to the engine and is connected to a fuel tank supported at the front or rear of the machine.

(4) A combined grass cutting and edge trimming machine substantially as herein described and as shown in the accompanying drawings.

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Fig. 1.

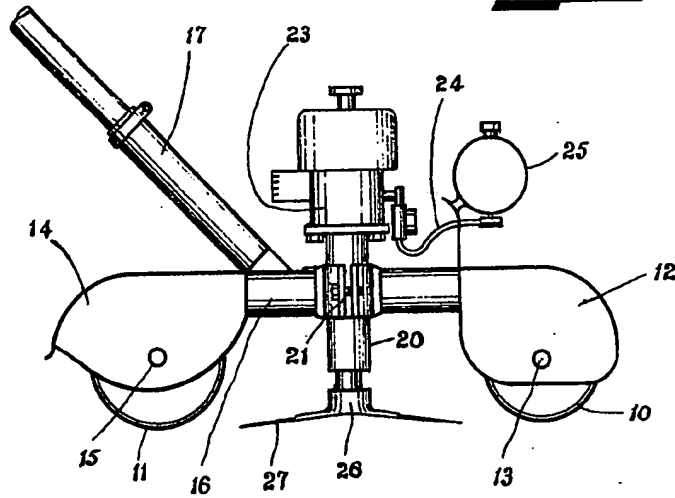


Fig. 2.

